Betaine Aldehyde Dehydrogenase (betB) Pseudomonas Fluorescens Recombinant Protein

PRODUCT OVERVIEW

Product Name	Betaine aldehyde dehydrogenase (betB), Recombinant Protein
Full Product Name	Recombinant Pseudomonas fluorescens Betaine aldehyde dehydrogenase (betB)
Product Gene Name	betB recombinant protein
Product Synonym Gene Name	betB
Sequence	MARFELQKLY IDGAYSDAGS DATFEAINPA NGEVLAHVQR ATKEDVERAV VSAEKGQKIW AAMTAMERSR ILRRAVDILR ERNDELAALE TLDTGKAFSE TKYVDIVTGA DVLEYYAGLV PAIEGEQIPL RDTSFVYTRR EPLGVVAGIG AWNYPIQIAL WKSAPALAAG NAMIFKPSEV TSLTTLKLAE IYTEAGVPNG VFNVLTGSGR EVGTWLTEHP RIEKISFTGG TDTGKKVMAS ASASSLKDVT MELGGKSPLI ICDDADLDRA ADTAMMANFY SSGQVCTNGT RVFVPSHLKA AFEAKIVERV ARIRVGNPED ENTNFGPLVS FPHMESVLGY IAKGKEEGAR VLCGGERLTD GEFAKGAFVA PTVFTDCTDD MTIVREEIFG PVMAILSYET EEEVIRRAND TDFGLAAGIV TRDLNRAHRV IHQLEAGICW INAWGESDAK MPVGGYKQSG VGRENGISSL NNFTRIKSVQ VELGDYVSVF
Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)
Preparation and Storage	Store at -20 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended.
Molecular Weight	53,174 Da
Sequence Positions	1-490, Full length protein
Tag Information	This protein contains an N-terminal tag and may also contain a C-terminal tag. Tag types are determined by various factors including tag-protein stability, please inquire for tag information.
Sterility	Sterile filter available upon request.
Endotoxin	Low endotoxin available upon request.
3D Structure	ModBase 3D Structure for Q3K5H4
Species	Pseudomonas fluorescens (strain Pf0-1)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for betB recombinant protein	MBS1323798 is a recombinant protein targeting betB. Also known as Recombinant Pseudomonas fluorescens Betaine aldehyde dehydrogenase (betB). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of betB recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for betB. It may not necessarily be applicable to this product.

NCBI GI #	499655572
NCBI Accession #	WP_011336306.1
UniProt Primary Accession #	Q3K5H4
GenBank Nucleotide #	WP_011336306.1

NCBI Official Full Name	betaine-aldehyde dehydrogenase
UniProt Protein Name	NAD/NADP-dependent betaine aldehyde dehydrogenase
Protein Family	NAD/NADP-dependent betaine aldehyde dehydrogenase
UniProt Gene Name	betB
UniProt Synonym Gene Names	BADH
UniProt Comments for betB	Involved in the biosynthesis of the osmoprotectant glycine betaine. Catalyzes the reversible oxidation of betaine aldehyde to the corresponding acid.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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